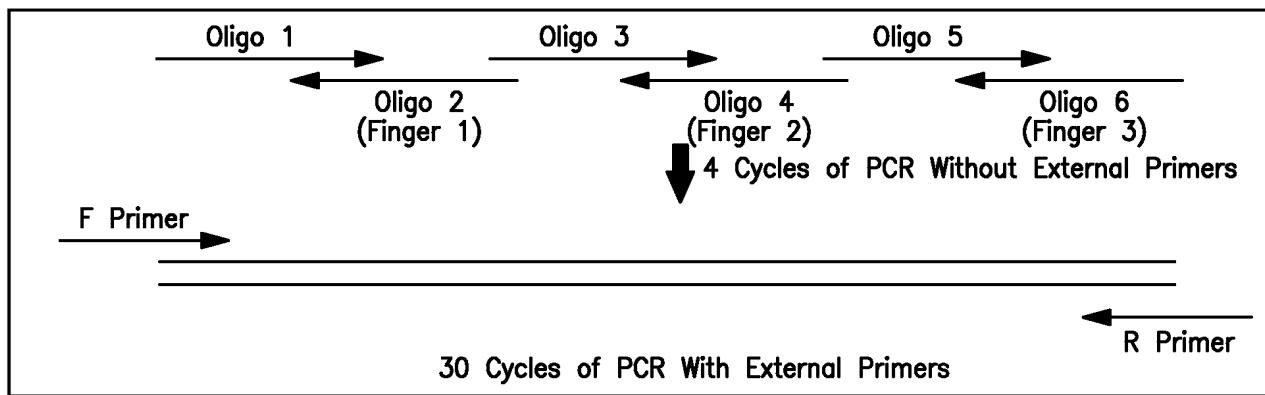
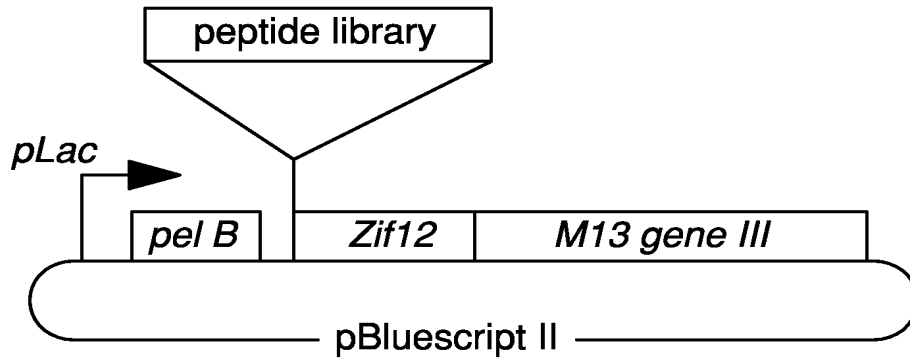


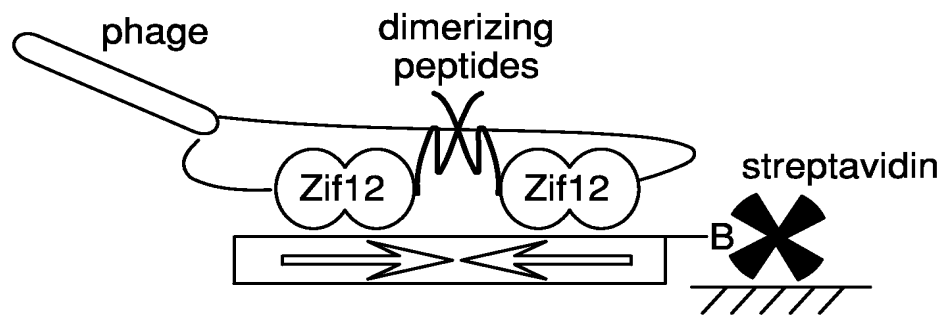
**FIG. 1**



**FIG. 2**



**FIG. 3A**

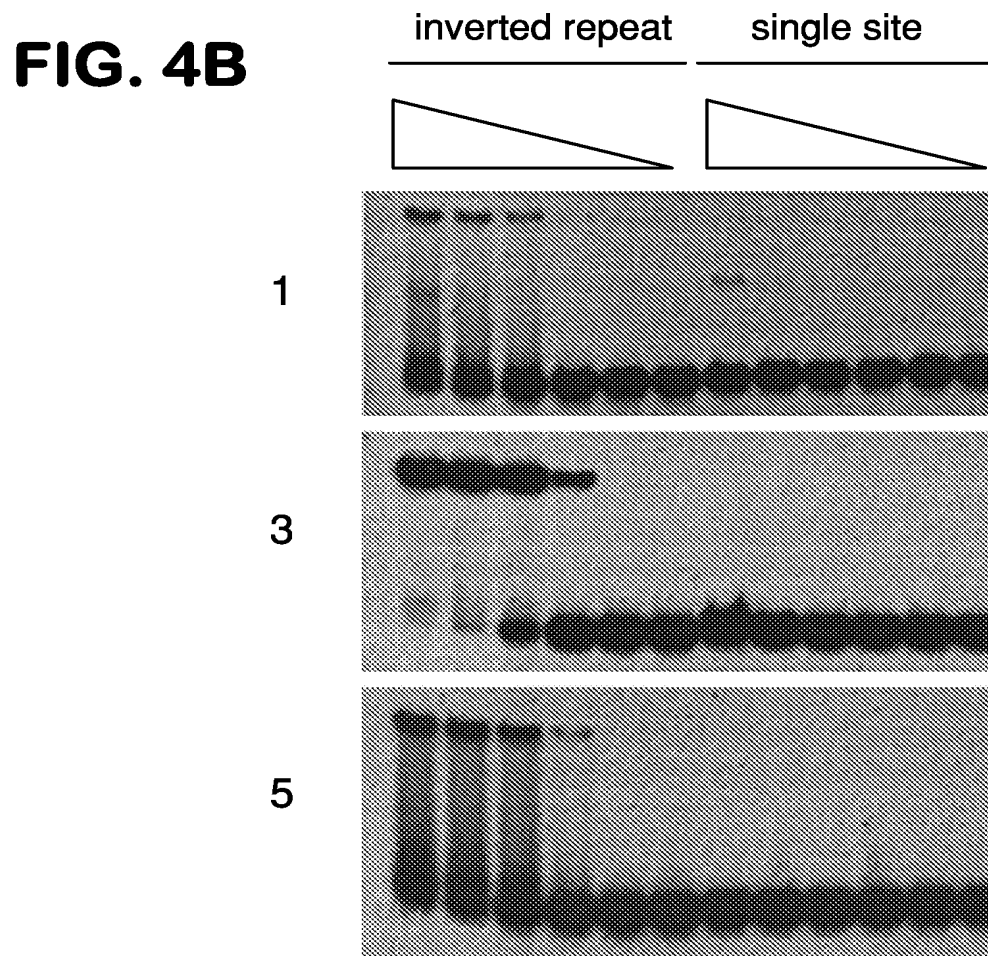


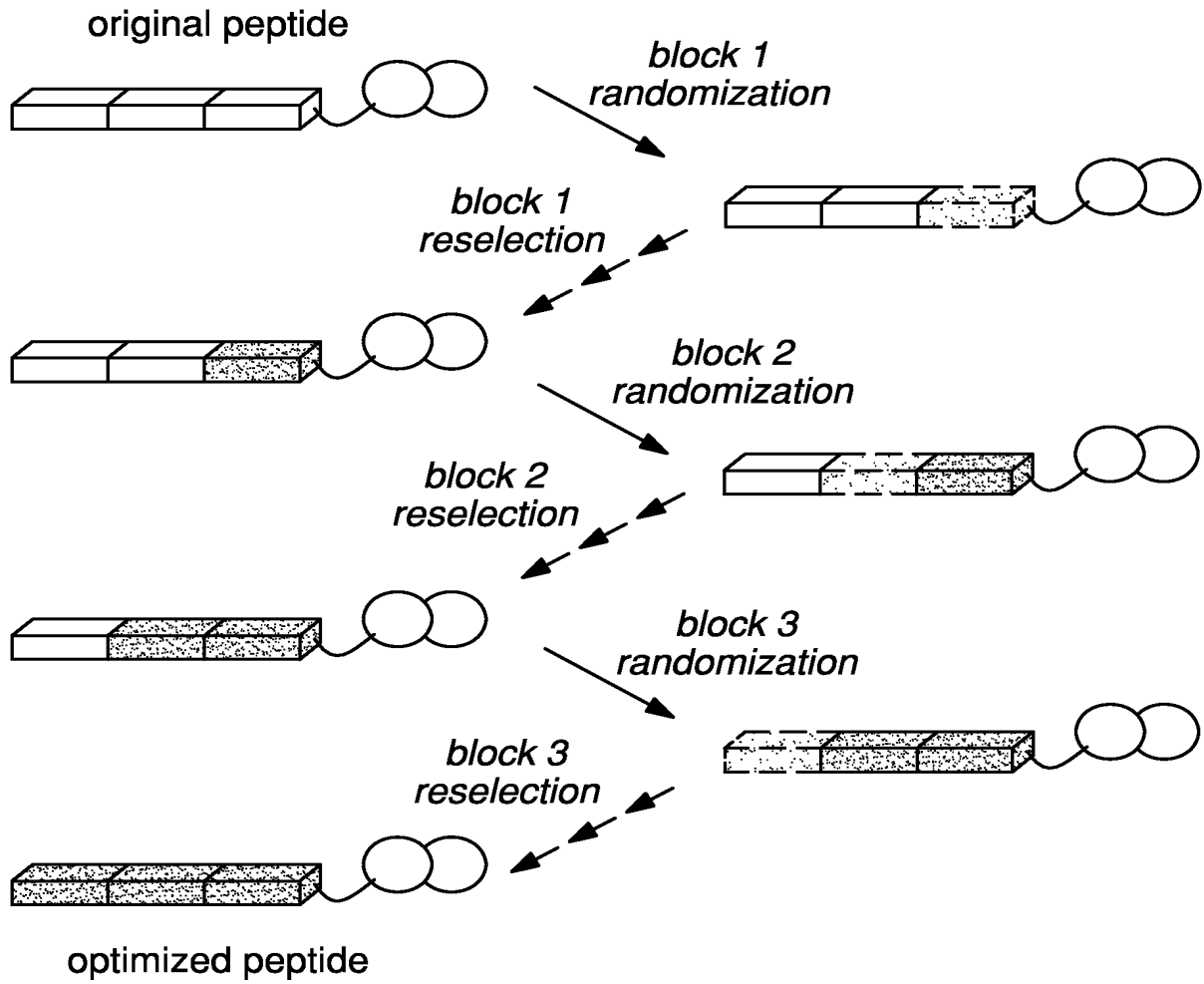
**FIG. 3B**

5' -GCAG **TGGGCGCGCCCA**CAGTACTTGAACGTAACG — Bio  
3' -CGTC **ACCCGCGCGGGT**GTCATGAACTTGCATTGC

**FIG. 3C**

**FIG. 4A** peptide 1: GGGQWLGTWEWYGPK (10)  
2: YEKISVEGIKDVRVR (9)  
3: NVSIEGVLKYRGLR (6)  
4: RSCGLDYEGYWLKLK (13)  
5: SRWLEEEVSRLLLLR (6)  
6: GEALDRFEREMKLMR (1)

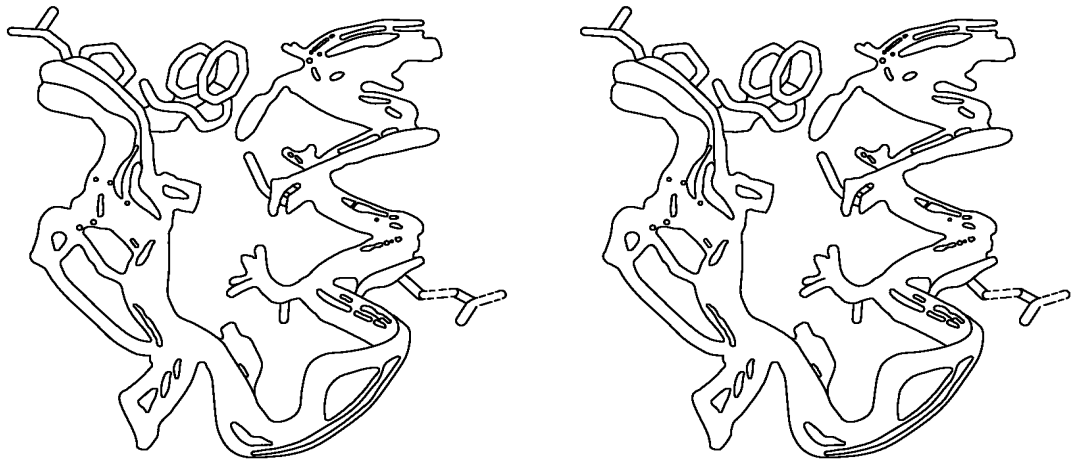




**FIG. 5**

<i>peptide 1</i>	GGGQW	LG <del>TWE</del>	WYGP <del>K</del>	-	Zif12
Step 1 (Cycle 6)	GGGQW	LG <del>TWE</del>	<b>HPKMK</b>		
	GGGQW	LG <del>TWE</del>	<b>PAKIR</b>		
	GGGQW	LG <del>TWE</del>	<b>VPKSR</b>		
	GGGQW	LG <del>TWE</del>	<b>VPRLK</b>		
	GGGQW	LG <del>TWE</del>	<b>APKL<del>R</del></b>		
	GGGQW	LG <del>TWE</del>	<b>HAKIR</b>		
	GGGQW	LG <del>TWE</del>	<b>VVKMR</b>		
Step 1 (Cycle 9)	GGGQW	LG <del>TWE</del>	<b>PVKMR</b>		
	GGGQW	LG <del>TWE</del>	<b>VPKQ<del>R</del></b>		E21D
Step 2 (Cycle 9)	GGGQW	<b>LLNYK</b>	VPKQR		
	GGGQW	<b>LLNYV</b>	VPKQR		
	GGGQW	<b>LLDYI</b>	VPKQR		
	GGGQW	<b>LLNYI</b>	VPKQR		
	GGGQW	<b>LLQYV</b>	VPKQR		
	GGGQW	<b>LLNYV</b>	VPKQR		
	GGGQW	<b>LLEYK</b>	VPKQR		
	GGGQW	<b>LLDYV</b>	VPKQR		
Step 3 (Cycle 6)	<b>HPMNN</b>	LLNYV	VPKMR		
	<b>HPMNN</b>	LLNYV	VPKMR		
	<b>PPSTE</b>	LLNYV	VPKLR		
	<b>QKYGD</b>	LLNYV	VPKLR		
	<b>ENYEK</b>	LLNYV	VPKLR		
	<b>ENYEK</b>	LLNYV	VPKLR		
<i>peptide 1*</i>	HPMNN	LLNYV	VPKMR	-	Zif12
<i>peptide 1* (variant)</i>	ENYEK	LLNYV	VRKLR	-	Zif12
<i>peptide 5</i>	SRWLE	EEVSR	LLLLR	-	Zif12
Step 1 (Cycle 9)	FRWLE	EEVSR	<b>MRLWR</b>		
	FRWLE	EEVSR	<b>MRGWK</b>		
	FRWLE	EEVSR	<b>MRGWK</b>		
	SRWLE	EEVSR	<b>MRKWR</b>		
	SRWLE	EEVSR	<b>MRKWR</b>		
	SRWLE	EEVSR	<b>MRKWR</b>		
	SRWLE	EEVSR	<b>MRKWK</b>		
	SRWLE	EEVSR	<b>MGVMR</b>		E21D
Step 2 (Cycle 6)	SRWLE	<b>EYLES</b>	<b>MRKWR</b>		
	SRWLE	DYVTQ	<b>MRKWR</b>		
	SRWLE	DYLAD	<b>MRKWR</b>		
	SRWLE	EYLT <del>F</del>	<b>MRKWR</b>		
	SRWLE	QYLED	<b>MRKWR</b>		
	SRWLE	DYVSQ	<b>MRKWR</b>		
	SRWLE	SYLDK	<b>MRKWR</b>		
	SRWLE	EYMSD	<b>MRKWR</b>		
Step 3 (Cycle 6)	QPWLT	EYLES	<b>MRKWR</b>		
	PPWLT	EYLES	<b>MRKWR</b>		
	PPWLK	EYLES	<b>MRKWR</b>		
	<b>PAWLT</b>	EYLES	<b>MRKWR</b>		
	<b>PAWLA</b>	EYLES	<b>MRKWR</b>		
	WAWLD	EYLES	<b>MRKWR</b>		
	PPWLK	EYLES	<b>MRKWR</b>		
	PTWLK	EYLES	<b>MRKWR</b>		
<i>peptide 5*</i>	PAWLT	EYLES	MRKWR	-	Zif12

FIG. 6

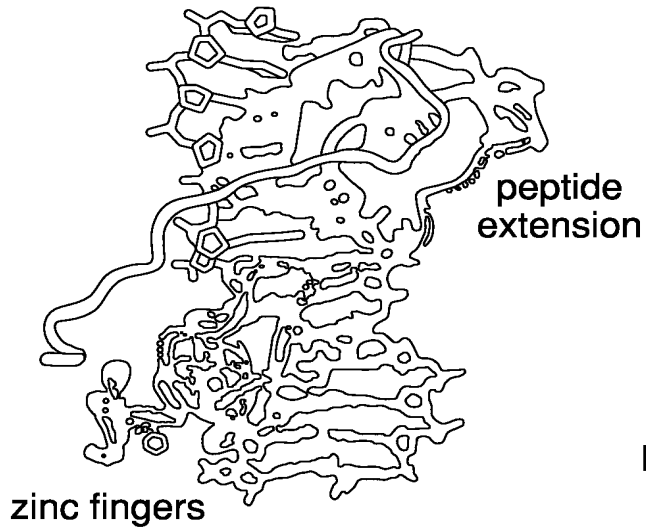


**FIG. 7A**

ZIF1: P Y A C P V K S C D R R F S R S D E L T R K T R I R T  
GLI1: E T D C F W D G C S Q E F D S Q E Q L V K H I N S E H I  
GLI2: K K V C F W G G C S K E L R F F K A Q Y M L V V M M K R H T  
SWI1: T K E C L F K C C T K T F K K K Y N L R C M I Q T H L

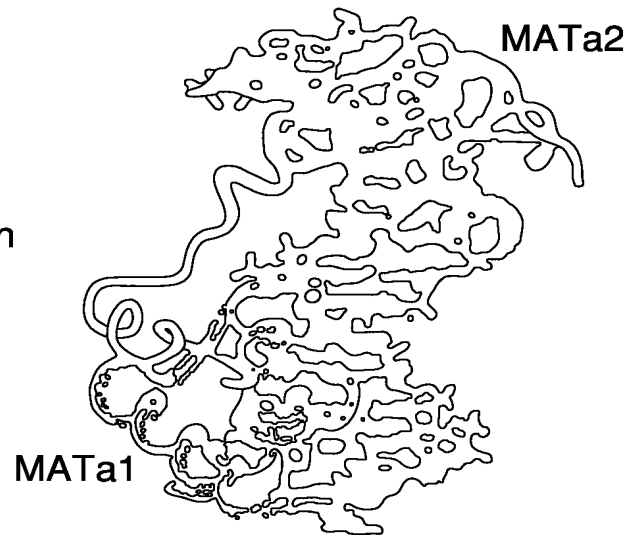
**FIG. 7B**

Zinc Finger Homodimer



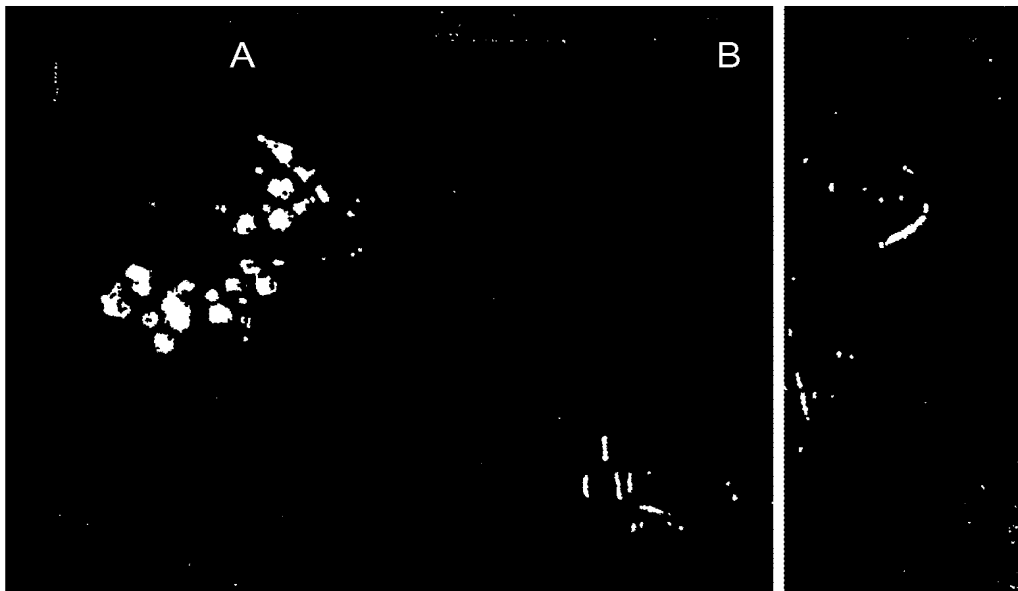
**FIG. 8A**

MATa1/a2 Heterodimer



**FIG. 8B**





**FIG. 9**